# GUJARAT TECHNOLOGICAL UNIVERSITY
### BE - SEMESTER– 1st / 2nd EXAMINATION– SUMMER 2016

**Subject Code: CPU001**                                          **Date:14/06/2016**
**Subject Name: COMPUTER PROGRAMMING AND UTILIZATION**
**Time:10:30 AM to 1:00 PM**                              **Total Marks: 70**
**Instructions:**
1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

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|---|---|---|---|
| **Q.1** | **(a)** | Draw block diagram of computer system and explain function of various components. | **07** |
| | **(b)** | Differentiate between Computer Hardware and software with suitable examples. | **07** |
| **Q.2** | **(a)** | Explain computer programming languages. | **07** |
| | **(b)** | Explain features of 'C' programming language. | **07** |
| **Q.3** | **(a)** | Explain primary data types in 'C' language. | **07** |
| | **(b)** | Explain different types of operators in 'C' language. | **07** |
| **Q.4** | **(a)** | Explain looping statements in 'C' language. | **07** |
| | **(b)** | Explain nesting of control structures. | **07** |
| **Q.5** | **(a)** | Explain decision making statements. | **07** |
| | **(b)** | What is an array? Explain with suitable examples. | **07** |
| **Q.6** | **(a)** | Write a C program to print multiplication table using two dimensional array | **07** |
| | **(b)** | Write a C program to add two 3X3 matrices. | **07** |
| **Q.7** | **(a)** | Explain built-in-sting function in 'C' language. | **07** |
| | **(b)** | Explain algorithm with suitable examples. | **07** |

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